

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

(562-3909)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Lakela's mint (Dicerandra immaculata)	1	diim-h1.1	Secure habitat through acquisition, landowner agreements, and conservation easements for Lakela's mint (Dicerandra immaculata).	Ongoing Current	Prior to FY 1995		Florida Department of Environmental Protection, Non-governmental organizations, South Florida counties	Acquisition: General	Labor type not yet selected	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	2	diim-h1.2.1	Conduct prescribed burns.	Ongoing Current	Prior to FY 1995		Florida Division of Forestry, South Florida counties, Private industry, landowners, etc.	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Cost is per acre (ex. 1.5/acre); Total cost dependent upon number of acres burned. Action lead(s): FWS, private, counties
Lakela's mint (Dicerandra immaculata)	3	diim-h1.2.2	Control and eliminate exotic and invasive plants and animals.	Ongoing Current	Prior to FY 1995		Florida Department of Environmental Protection, Florida Department of Transportation, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry, Water Management Districts, South Florida counties, Private industry, landowners, etc.	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Cost is per acre (ex. 2/acre); Total cost dependent upon number of acres infested with exotics. Action lead(s): FWS, FDEP, DOF, FWC, private, counties
Lakela's mint (Dicerandra immaculata)	2	diim-h1.2.3	Control access to areas where Lakela's mint is growing.	Ongoing Current	Prior to FY 1995		South Florida counties, Private industry, landowners, etc.	Other: Law Enforcement, Other: Regulations	Labor type not yet selected	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): FWS, private, counties

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Lakela's mint (Dicerandra immaculata)	3	diim-h2.1	Restore natural fire regime.	Ongoing Current	Prior to FY 1995		Florida Division of Forestry, South Florida counties, Private industry, landowners, etc.	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Cost is per acre (ex. 1.5/acre); Total cost dependent upon number of acres burned. Action lead(s): FWS, private, counties
Lakela's mint (Dicerandra immaculata)	3	diim-h2.2	Enhance sites with native plant species.	Not Started			South Florida counties, Private industry, landowners, etc.	Management: Habitat Maintenance and Manipulation	Labor type not yet selected	Cost is per acre (ex. 1.5/acre); Total cost dependent upon number of acres enhanced. Action lead(s): FWS, private, counties
Lakela's mint (Dicerandra immaculata)	2	diim-h3.0	Conduct habitat-level research projects.	Not Started			Non-governmental organizations, Public and private universities	Research: Habitat Requirements	Labor type not yet selected	Action lead(s): universities, NGO
Lakela's mint (Dicerandra immaculata)	2	diim-h4.0	Monitor habitat/ecological processes.	Ongoing Current	Prior to FY 1995		South Florida counties, Private industry, landowners, etc.	Research: Ecosystem Studies	Labor type not yet selected	Action lead(s): FWS, private, counties
Lakela's mint (Dicerandra immaculata)	3	diim-h5.0	Provide public information about xeric vegetative communities and its unique biota.	Ongoing Current	Prior to FY 1995		Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry, South Florida counties, Private industry, landowners, etc.	Other: Information and Education	Labor type not yet selected	Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	2	diim-s1.1	Conduct surveys for Lakela's mint.	Complete	FY 2005	FY 2007	Florida Department of Environmental Protection, Non-governmental organizations, South Florida counties	Research: Population Surveys	Contract	Action lead(s): FWS, counties, NGO
Lakela's mint (Dicerandra immaculata)	3	diim-s1.2	Maintain distribution of known populations and suitable habitat in GIS database.	Ongoing Current	FY 2006		Florida Natural Areas Inventory, South Florida counties, Private industry, landowners, etc.	Research: Population Assessment	Labor type not yet selected	Action lead(s): FWS

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Lakela's mint (Dicerandra immaculata)	1	diim-s2.1	Protect habitat through acquisition, conservation easements or agreements with landowners.	Ongoing Current	Prior to FY 1995		Florida Department of Environmental Protection, South Florida counties, Private industry, landowners, etc.	Acquisition: General	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	1	diim-s2.2	Protect populations on public lands.	Ongoing Current	Prior to FY 1995		South Florida counties	Acquisition: General	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FWS, counties
Lakela's mint (Dicerandra immaculata)	2	diim-s2.3	Use local or regional planning to protect habitat.	Ongoing Current	Prior to FY 1995		Local Governments, South Florida counties	Other: Administration	Labor type not yet selected	Cost included in standard operating procedures of participating agency's budget. Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	1	diim-s2.4.1	Conserve germ plasm.	Ongoing Current	Prior to FY 1995		Non-governmental organizations, Private industry, landowners, etc.	Management: Propagation	Labor type not yet selected	Currently in Bok's collection. Action lead(s): NGO
Lakela's mint (Dicerandra immaculata)	2	diim-s2.4.2	Maintain ex situ collection.	Ongoing Current	Prior to FY 1995		Non-governmental organizations, Private industry, landowners, etc.	Management: Propagation	Labor type not yet selected	Introduced population at Hobe Sound National Wildlife Refuge is backup for Harbor Branch population; currently in Bok's collection. Action lead(s): NGO
Lakela's mint (Dicerandra immaculata)	2	diim-s2.5.1	Initiate section 7 consultation when applicable.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Federal Emergency Management Agency, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service, United States Coast Guard, U.S. Air Force, US Forest Service	Other: Regulations	Labor type not yet selected	Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies

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Lakela's mint (Dicerandra immaculata)	3	diim-s2.5.2	Enforce take and trade prohibitions.	Ongoing Current	Prior to FY 1995		Florida Department of Agriculture and Consumer Services/Division of Plant Industry	Other: Law Enforcement	Labor type not yet selected	Cost included in standard operating budgets of participating agencies. Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	1	diim-s2.6.1	Establish a protocol for reintroduction.	Complete	Prior to FY 1995	FY 2006	Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Research: Reintroduction	Contract	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	1	diim-s2.6.2	Locate potential (re)introduction sites.	Complete	Prior to FY 1995	FY 2000 - FY 2004	Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Research: Reintroduction	Contract	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	1	diim-s2.6.3	(Re)introduce plants to protected sites.	Ongoing Current	Prior to FY 1995		Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Management: Reintroduction	Contract	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	1	diim-s3.1	Conduct research to determine demographic information.	Ongoing Current	FY 2007		Non-governmental organizations, Private industry, landowners, etc., Public and private universities	Research: Demographic Studies	Labor type not yet selected	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	1	diim-s3.2	Once demographic data are known, conduct population viability and risk assessment analyses.	Not Started			Non-governmental organizations, Private industry, landowners, etc., Public and private universities	Research: Population Assessment	Labor type not yet selected	Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	1	diim-s3.3	Conduct research to assess management requirements of Lakela's mint.	Not Started			Private industry, landowners, etc., Public and private universities	Research: Management Techniques	Labor type not yet selected	Action lead(s): FWS
Lakela's mint (Dicerandra immaculata)	2	diim-s4.1.1	Monitor to detect changes in demographic characteristics.	Ongoing Current	FY 2007		Non-governmental organizations, South Florida counties, Private industry, landowners, etc., Public and private universities	Research: Demographic Studies	Labor type not yet selected	Action lead(s): FWS

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Lakela's mint (Dicerandra immaculata)	1	diim-s4.1.2	Monitor the effects of various land management actions on Lakela's mint.	Not Started			Non-governmental organizations, South Florida counties, Private industry, landowners, etc., Public and private universities	Research: Management Techniques	Labor type not yet selected	Action lead(s): FWS, counties, NGO
Lakela's mint (Dicerandra immaculata)	2	diim-s4.2	Develop a quantitative description of the population structure of Lakela's mint.	Ongoing Current	FY 2005		Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Research: Population Assessment	Labor type not yet selected	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	2	diim-s4.3	Monitor re-introduced Lakela's mint plants.	Ongoing Current	Prior to FY 1995		Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Research: Reintroduction	Labor type not yet selected	Action lead(s): FWS, NGO
Lakela's mint (Dicerandra immaculata)	3	diim-s5.0	Provide public information about Lakela's mint.	Ongoing Current	Prior to FY 1995		Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, South Florida counties, Private industry, landowners, etc.	Other: Information and Education	Labor type not yet selected	Action lead(s): FWS